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APPLICATION NO). F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/634,141		08/04/2003	Ilya V. Karpov	ITO.0554US (P16589)	5089	
21906	7590	12/22/2004		EXAMINER		
TROP PR	UNER &	HU, PC	LEE, EUGENE			
	Y FREEW.	AY		ART UNIT	PAPER NUMBER	
SUITE 10	_	004			TATER NOMBER	
HOUSTO	N, TX 770	024		2815		
				DATE MAILED: 12/22/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

				20h			
		Application No.	Applicant(s)				
Office Action Summany		10/634,141	KARPOV, ILYA V.				
	Office Action Summary	Examiner	Art Unit				
		Eugene Lee	2815				
Period fo	The MAILING DATE of this communication a or Reply	appears on the cover sheet w	ith the correspondence address				
THE - External control	IORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION insions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory perion are to reply within the set or extended period for reply will, by state reply received by the Office later than three months after the managed patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply within the slatutory minimum of thi od will apply and will expire SIX (6) MOI tute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communic BANDONED (35 U.S.C. § 133).	ation.			
Status							
1)	Responsive to communication(s) filed on 25	October 2004.					
•		his action is non-final.					
3)							
	closed in accordance with the practice unde	r <i>Ex parte Quayle</i> , 1935 C.[). 11, 453 O.G. 213.				
Disposit	ion of Claims						
5) 6) 7)	Claim(s) 1,4,7-21 and 23-31 is/are pending 4a) Of the above claim(s) is/are withd Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) 1,4,7-21,23-31 are subject to restri	rawn from consideration.	ment.				
Applicat	ion Papers						
10)	The specification is objected to by the Example The drawing(s) filed on is/are: a) a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the	ccepted or b) objected to he drawing(s) be held in abeya ection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.12				
Priority	under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for forei All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the p application from the International Bure See the attached detailed Office action for a l	ents have been received. ents have been received in A riority documents have beer eau (PCT Rule 17.2(a)).	Application No received in this National Stage				
Attachmer	nt(s)		·				
1) Notic	ce of References Cited (PTO-892)		Summary (PTO-413)				
3) Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 er No(s)/Mail Date		(s)/Mail Date Informal Patent Application (PTO-152)				

Application/Control Number: 10/634,141

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 11 thru 21, and 23 thru 31, drawn to semiconductor device, classified in class 257, subclass 246.
 - II. Claims 1, 4, and 7 thru 10, drawn to method of making a semiconductor device, classified in class 438, subclass 1+.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I and II are related as the product made and the process of making. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product as claimed can be made by another and materially different process. For example, as an alternative to the methods set forth in claims 1, 4, and 7-10, instead of filling said pore with a conductive material and them removing the upper portion of said conductive material, one can fill the pore without removing an upper portion of said conductive material.
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 4. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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INFORMATION ON HOW TO CONTACT THE USPTO

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Eugene Lee whose telephone number is 571-272-1733. The

examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Tom Thomas can be reached on 571-272-1664. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Eugene Lee

December 20, 2004

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